

Alan Lisbon, MD

Part I: General Information

DATE PREPARED: March 25, 2004

Name: Alan Lisbon, MD.

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Home Address: ---

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Place of Birth: ---

Education:

---	B.S. (with Distinction)	Cornell University
---	M.D.	New York University School of Medicine

Postdoctoral Training:

Internship and Residencies:

---	Surgical Internship	Beth Israel Hospital, Boston, MA
---	Anesthesia Residency	Beth Israel Hospital, Boston, MA

Licensure and Certification:

---	Diplomate, National Board of Medical Examiners
---	Massachusetts Medical License
---	Diplomate, American Board of Anesthesiology
---	Diplomate, American Board of Anesthesiology: Special Qualifications in Critical Care Medicine
---	Recertification, American Board of Anesthesiology

Academic Appointments:

---	Clinical Fellow in Surgery	Harvard Medical School
---	Clinical Fellow in Anaesthesia	Harvard Medical School
1980-1984	Instructor in Anaesthesia	Harvard Medical School
1984-2002	Assistant Professor of Anaesthesia	Harvard Medical School
2001-	Clinical Professor, Cardiopulmonary and Exercise Science	Northeastern University
2002-	Associate Professor of Anaesthesia	Harvard Medical School

Hospital Appointments:

1980-1985	Assistant Anesthetist	Beth Israel Hospital, Boston, MA
1985-1995	Associate Anesthetist	Beth Israel Hospital, Boston, MA
1993-	Consultant in Anesthesia	Children's Hospital, Boston, MA
1993-1996	Associate Surgeon	Beth Israel Hospital, Boston, MA
1995-1996	Anesthetist	Beth Israel Hospital, Boston, MA
1996-	Associate Surgeon	Beth Israel Deaconess Medical Center, Boston, MA
1996-	Anesthetist	Beth Israel Deaconess Medical Center, Boston, MA
2003-	Vice Chairman Critical Care	Beth Israel Deaconess Medical Center, Boston, MA

Hospital and Health Care Organization Service Responsibilities:

1980-1985	Associate Director, Respiratory-Surgical Intensive Care Unit	Beth Israel Hospital
1980- 2002	Member, Cardiac Anesthesia Team	Beth Israel Hospital
1985-1996	Co-Director, Respiratory-Surgical Intensive Care Unit	Beth Israel Hospital
1996-	Medical Director, Respiratory Care	Beth Israel Deaconess Medical Center
1996-	Co-Director, Surgical ICU's	Beth Israel Deaconess Medical Center

Major Administrative Responsibilities:

1990-1996	Director, Critical Care Fellowship	Beth Israel Hospital
1991-1996	Chief, Division of Critical Care	Beth Israel Hospital
1996-	Chief, Division of Critical Care	Beth Israel Deaconess Medical Center
1996-	Director, Critical Care Fellowship	Beth Israel Deaconess Medical Center
2003-	Vice Chairman Critical Care	Beth Israel Deaconess

Major Committee Assignments:**National**

1992	Consensus Development Committee Society of Critical Care Medicine	Member
1992-1996	Society of Critical Care Medicine House of Chapters	Delegate
1993-	American Society of Critical Care Anesthesiologists, Resident Education Committee	Member
1995-	American College of Chest Physicians, Steering Committee on Critical Care	Member
1995-	American Board of Anesthesiology	Associate Examiner
1996-1997	American College of Chest Physicians, Chairman Steering Committee on Critical Care	
1996-1997	American Society of Anesthesiologists, Member Subcommittee on Critical Care	
1997-1999	American College of Chest Physicians, Member Program Committee	
1998-2002	Society of Critical Care Medicine, Anesthesia Section, Advisory Board	Member
1998-2002	American College of Chest Physicians, Member Health & Science Policy Committee	
1998-	American Society of Critical Care Anesthesiologists, Practice and Training Committee	Member
2000-	Society of Critical Care Medicine Outreach Committee	Member
2002-	American College of Chest Physicians, Member Nominations Committee	
2002-	Food and Drug Administration, Anesthesia and Respiratory Therapy Devices Panel (Chair 2003)	Member

Regional

1991	New England Regional Critical Care Society	Program Director
1992-1998	New England Regional Critical Care Society	Board of Directors
1993	Society of Critical Care Medicine,	Secretary

1994-1995	New England Chapter Society of Critical Care Medicine, New England Chapter	Vice President
1996	Society of Critical Care Medicine, New England Chapter	President
2003	Massachusetts Society of Anesthesiologists	MSA Governmental Affairs
2003	Massachusetts Society of Anesthesiologists	MSA Ethical Practice and Standards of Care Committee

Medical School

1987-	Respiratory Therapy Advisory Committee	Member	Northeastern University
1989-1996	Standing Committee on Member Human Studies		Harvard Medical School
1996-1998	Human Studies Committee Services	Member	Harvard University Health
1996-	Respiratory Therapy Program	Medical Director	Northeastern University

Hospital

1984-1996	Emergency Room Committee	Member	Beth Israel Hospital
1986-1996	Critical Care Committee	Member	Beth Israel Hospital
1988-1996	Committee on Clinical Investigations	Secretary	Beth Israel Hospital
1988-1996	Committee on Infectious Disease	Member	Beth Israel Hospital
1990-1996	Tissue Committee	Member	Beth Israel Hospital
1991-1992	Critical Care Committee	Co-Chairman	Beth Israel Hospital
1991-1996	Medical Staff Council	Member	Beth Israel Hospital
1994-1996	Medical Executive Committee	Member	Beth Israel Hospital
1995-1996	Critical Care Committee	Co-Chairman	Beth Israel Hospital
1995-1996	Operative and Invasive Procedures Committee		Beth Israel Hospital

Medical Center

1996-1999	Committee on Infectious Disease	Member	Beth Israel Deaconess
1996-2000	Tissue Committee	Member	Beth Israel Deaconess
1996-	Medical Staff Council	Member	Beth Israel Deaconess
1996-1998	Committee on Clinical	Secretary	Beth Israel Deaconess

Investigations

1996-1998	Anesthesia and Critical Care Pharmacy Subcommittee	Co-Chairman	Beth Israel Deaconess
1996	Critical Care Committee	Member	Beth Israel Deaconess
1996-1998	Operative and Invasive Procedures Committee	Member	Beth Israel Deaconess
1997-1998	Critical Care Committee	Co-Chairman	Beth Israel Deaconess
1998-1999	Committee on Clinical Investigations	Co-Chairman	Beth Israel Deaconess
1998-2000	Clinical Information Systems Steering Committee	Member	Beth Israel Deaconess
1998-	Benefits Advisory Committee	Member	Harvard Medical Faculty Physicians
1998-2000	Resuscitation Committee	Chairman	Beth Israel Deaconess
1998-	Physician's Organization Board of Directors	Member	Beth Israel Deaconess
1998-	Physician's Organization Managed Care Steering Committee	Member	Beth Israel Deaconess
1999-	Committee on Clinical Investigations	Chairman	Beth Israel Deaconess
2001-	Clinical Research Strategy Committee	Member	Beth Israel Deaconess
2002-	OR Executive Committee	Member	Beth Israel Deaconess

Department

1984-	Clinical Competence Committee	Member	Beth Israel Hospital, BIDMC
1985-2000	Quarterly Review Committee	Member	Beth Israel Hospital, BIDMC
1988-	Resident Selection Committee	Member	Beth Israel Hospital, BIDMC
1988-	Peer Review Committee	Member	Beth Israel Hospital, BIDMC
1991-	Beth Israel Anesthesia Foundation Board of Directors	Secretary	Beth Israel Hospital, BIDMC
1992-	Division Directors Committee	Member	Beth Israel Hospital, BIDMC
1995-	Grand Rounds Conferences	Coordinator	Beth Israel Hospital, BIDMC
1996-	Curriculum Committee	Member	Beth Israel Hospital, BIDMC
1996-	Clinical Practice Committee	Member	Beth Israel Hospital, BIDMC

Professional Societies:

1976-	American Medical Association	Member
1977-	Massachusetts Society of Anesthesiologists	Member

1977-	American Society of Anesthesiologists	Member
1980-	American Board of Anesthesiology	Member
1981-	Society of Critical Care Medicine	Member
1982-	Massachusetts Medical Society	Member
1990-	New England Regional Critical Care Society	Member
1991-	American Society of Critical Care Anesthesiologists	Member
1994-	American College of Chest Physicians	Elected Fellow
1995-2000	International Trauma Anesthesia and Critical Care Society	Member
1996-	American College of Critical Care Medicine	Elected Fellow

Editorial Boards:

1988-	Ad hoc reviewer	Critical Care Medicine
1990-	Ad hoc reviewer	New England Journal of Medicine
1994-	Ad hoc reviewer	Chest
1999-	Ad hoc reviewer	Mayo Clinic Proceedings
2000-	Editorial Board	Clinical Medicine and Research

Award and Honors:

---	Tau Beta Pi, Cornell University
---	Eta Kappa Nu, Cornell University

Part II: Research, Teaching, and Clinical Contributions

A. Narrative Report

Teaching

I have been actively involved in teaching at many levels. This teaching has taken the form of lecturing at international (including Russia, Latvia, Korea, Hong Kong, England, and Australia), national (both at the university level and at the major critical care and anesthesia meetings), regional, and local meetings related to critical care. At Beth Israel Deaconess Medical Center, I am responsible for our nationally recognized critical care fellowship, the teaching of 24 anesthesia residents, 36 surgical residents, and 12 emergency medicine residents, who rotate through the Surgical Intensive Care Units yearly. These residents form a multidisciplinary team responsible for all aspects of care for our ICU patients. I have written multiple chapters for critical care texts and handbooks.

Approximately 8-12 Harvard and outside medical students rotate onto the Critical Care Service each year. For the past seven years I have been the organizer of Grand Rounds for the BIDMC Department of Anesthesia and Critical Care. Clinical teaching takes the form of a formal ICU lecture program (which I initiated), bedside teaching, and hands-on demonstration of procedures. Teaching also involves the nursing staff and respiratory department. I serve as the Medical Director of the respiratory care training program at Northeastern University, and also teach one seminar per semester to junior and senior respiratory care students. Since 1995 I have served as an oral examiner for the American Board of Anesthesiology.

Administrative

I chair the Institutional Review Board at Beth Israel Deaconess Medical Center and am responsible for policy, process, and oversight of approximately 1300 studies involving human subjects. During this time, we have increased safeguards for human subjects, have implemented oversight for gene therapy in human subjects, and have merged the IRBs of two hospitals to operate under one assurance. We now have three sections of the IRB that meet each month and have consistent policies and procedures. Most recently, we have approved the development of one of the first multi-institutional tissue banks and I led the committees through the issues of federal compliance, patient protection, ethics and confidentiality. I recently spoke about IRB process at the American Society of Anesthesiologists annual meeting. I have served as committee chairperson of both the hospital Critical Care Committee and Resuscitation Committee.

On a national level, I sat on the Health Science and Policy Committee of the American College Chest Physicians which is a leadership group responsible for the creation of patient care guidelines and monitoring scientific and clinical developments in cardiopulmonary health and critical care.

Clinical

For the past five years, my clinical time has been primarily devoted to surgical critical care (approximately 60%). The critical care portion of my time is spent as Co-Chairman of the Surgical Intensive Care Units at Beth Israel Deaconess Medical Center with responsibility for the policies, medical care, and administration of that service. This has included installation of a computerized data management system, creation of policies that have led to improved patient care and have decreased length of stay and introduction of evidence based protocols.

I also remain active in the operating room providing anesthesia for cardiac surgery and for other major operative anesthetics including thoracic, vascular, and general surgical procedures in the critically ill.

While in the ICU and operating room, I am active in the teaching programs for residents and fellows. I am requested frequently to provide anesthetics for nursing staff, families of staff, physicians, physician families and VIPs.

I have been active in the professional societies related to my clinical work, including the SCCM, ACCP, and have served as president of the New England Chapter of the Society of Critical Care Medicine.

Research

My research has centered around multi-center clinical trials of ICU therapies, most recently anti-sepsis agents and erythropoietin. A paper written in 1982 was the first to show a relationship between gastric colonization and nosocomial pneumonia. Other work has looked at the utility of other practices in critical care (papers 5, 9, 12). In addition, research has concerned the efficacy of various diagnostic tests in the ICU and the early development and testing of monitoring devices for the critically ill.

B. Funding Information

1988-1992	NIH	PI	Development and testing of a portable oxygen-enricher for inhalation therapy
1990-1993	---	PI	Testing of an intra-arterial blood gas optode
1996-1997	---	PI	Feedback control and hemodynamics
1996-1998	---	PI	Development of a non-invasive blood pressure device
1998-2000	---	PI	KL-4 surfactant in ARDS (Multicenter)
1998- 2001	---	PI	Use of erythropoietin in the ICU (Multicenter)
1999	---	PI	A Phase 2b study to evaluate the safety and efficacy of recombinant platelet activating factor acetylhydrolase (rPAF-AH) for the prevention of acute respiratory distress syndrome in patients with severe sepsis or severe traumatic injuries (Multicenter)
1999-2000	---	PI	Multiple dose safety, tolerability, pharmacokinetics, and pharmacodynamics of PMX 622 in patients with severe SIRS and evidence of infection (Multicenter)
1999	---	PI	Therapeutic intervention with propofol versus

			standard ICU sedation; Control of patients with asthma, seizures, intracranial hypertension, and other disease states requiring mechanical ventilation
1999-2000	---	PI	Recombinant tissue factor pathway inhibitor sepsis patients. A multicenter, single blind, placebo controlled, randomized, dose escalation study
1999-2000	---	PI	A Phase III study to determine the efficacy and safety for recombinant human activated protein C in severe sepsis (Multicenter)

C. Report of Current Research Activities

Chairman, Institutional Review Board, Beth Israel Deaconess Medical Center

D. Report of Teaching

1. Local contributions

a. Medical School courses

1980-1981-	Surgery Course 500M.1b, Surgical Core Clerkship, Harvard Medical School Preceptor for 6-12 students/year, 1 week/student
1980-	Respiratory-Surgical Intensive Care, Harvard Medical School Course 503M.1. Preceptor for 4-7 medical students/year, 1 month/student
1980-1984	Emergency Medical Care, Harvard Medical School Course 705.J. Lecture 2 hrs/year, 50 students
1982-	Clinical Seminar II, Course RTH 1414, Northeastern University, Lecturer and seminar leader. 12 students/year, 12 hours/year

b. Graduate medical courses

1980-	R/SICU Rounds-Resident Lectures. Daily lectures to fellows, residents and medical students in Surgical ICU. 72 hours/year
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- 1982-1996 Instructor, Advanced Trauma Life Support, American College of Surgeons
- 1992-1994 Instructor, Advanced Cardiac Life Support
- 1993- Department of Anesthesia and Critical Care Grand Rounds and Visiting Professor Lecture Series organizer for 60-70 anesthesia residents, fellows, and attending staff, 52 hours/year
- 1996- Instructor, Fundamentals of Critical Care Support

c. Continuing medical education courses

- 1991 Sepsis in the ICU Patient, Anesthesia Grand Rounds, Baystate Medical Center, Springfield, MA
- 1991 Postoperative Cardiac Care, Anesthesia Grand Rounds, Baystate Medical Center, Springfield, MA
- 1992 Withdrawal of Therapy, UMASS Medical Center Grand Rounds, Worcester, MA
- 1992 CPR Not Indicated, Meta-Ethics Conference, Harvard Medical School, Boston, MA
- 1993 The Use of Dopamine a Renal Vasodilator, Second Annual Critical Care Symposium, Boston, MA
- 1994 Withdrawal of Therapy Grand Rounds, Hebrew Rehabilitation Center for the Aged, Jamaica Plain, MA
- 1994 Withdrawal of Therapy, Tufts University Medical School, Department of Anesthesia Grand Rounds, Boston, MA
- 1999 The Pulmonary Artery Catheter in Critical Care-Pro, Harvard Respiratory and Critical Care Course, Cambridge, MA
- 1999 Ethics in the Intensive Care Unit, Respiratory Care Review Course, Beth Israel Deaconess Medical Center, Boston, MA
- 1999 The Surgical ICU Experience: Controlling Costs and Preop Management Strategies, Cambridge Health Resources & The New England Educational Institute, Boston, MA
- 1999 Debunking Myths in the ICU, Anesthesia Grand Rounds, Massachusetts General Hospital, Boston, MA

d. Advisory and supervisory responsibilities

BIDMC Critical Care Fellowship
 Cardiac Anesthesia Fellows and Residents
 BIDMC Anesthesia Residents

e. Teaching leadership roles

Surgical Critical Care – as director of the SICU organized and established the teaching curriculum, lecture series and evaluation tools for fellows, residents, and medical students

Grand Rounds BIDMC Dept of Anesthesia and Critical Care - responsible for organization of grand rounds program for department

Program Committee, American College of Chest Physicians – member of committee that organized curriculum and program for annual meeting of ACCP

Associate Examiner, American Board of Anesthesiology – serve as examiner on a yearly basis since 1995 for national board certification body. Developed questions for written and oral board exams

Medical Director Respiratory Care Program, Northeastern University

f. Trainees

<u>Year</u>	<u>Fellow</u>	<u>Current Position</u>
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Proprietary information has been deleted.

2. Regional, national, or international contributions

1981	Moderator	Scientific Session on High Frequency Ventilation, III World Congress on Intensive Care and Critical Care Medicine, Washington D.C.
1986	Visiting Lecturer	University of Kansas
1988	Invited Expert	United States Congress, Subcommittee on Human Resources and Intergovernmental Relations
1991	Lecturer	Discontinuation of Life Support Harvard Anesthesia Review Course, Boston, MA
1992	Television Guest	McNeil Lehrer Report, “Condition Critical: The American

		Health Care Forum”
1992	Lecturer	Withdrawal of Life Support Harvard Medical School Anesthesia Review and Update, Boston, MA
1993	Visiting Professor	Oxford University, Oxford, England
1993	Visiting Professor	Australian and New Zealand College of Anesthetists
1993	Lecturer	Recent Advances in Critical Care Harvard Medical School Anesthesia Review and Update, Boston, MA
1993	Lecturer	Recovery of the Cardiac Surgical Patient – Shortening the Length of Stay American College of Chest Physicians Annual Meeting, Orlando, FL
1994	Lecturer	Withdrawal of Therapy Harvard Medical School Anesthesia Review and Update, Boston, MA
1994	Lecturer	Intensive Care and Surgery in the Elderly Dartmouth Hitchcock Medical Center, Department of Medicine Grand Rounds, Lebanon, NH
1994	Lecturer	Withdrawal of Therapy, Dartmouth-Hitchcock Medical Center Medicine Grand Rounds Lebanon, NH
1994	Visiting Professor	Anesthesiology Refresher Course, St. Petersburg, Russia
1994	Lecturer	Use of Neuromuscular Blocking Agents in the ICU 5 th Annual Educational Meeting, New England Chapter, Society of Critical Care Medicine, Worcester, MA
1994	Lecturer	The Use of Dopamine in the Intensive Care Unit American College of Chest Physicians Annual Meeting New Orleans, LA
1994	Lecturer	A History of Computers in Critical Care American College of Chest Physicians Annual Meeting New Orleans, LA
1995	Visiting Professor	Hong Kong College of Anesthesiology, Pamela Youde Nethersole Eastern Hospital, Hong Kong

1995	Lecturer	Clinical Use of Short Acting Beta Blockers, Seoul National al University, Seoul Korea
1995	Moderator	Scientific Session on ARDS-Early Interventions American College of Chest Physicians, New York, NY
1995	Lecturer	Acute Respiratory Failure in the Critically Ill Adult World Federation Society of Anesthesiology, WFSA Riga Refresher Course, Riga, Latvia
1995	Lecturer	Clinical Aspects of Renal Protection World Federation Society of Anesthesiology, WFSA Riga Refresher Course, Riga, Latvia
1995	Lecturer	Digitalis Belongs in Your Garden, Not in Your ICU (Treatment of Atrial Fibrillation in the Critically Ill) American College of Chest Physicians Annual Meeting, NY, NY
1997	Invited Discussant	Scientific Session on Nitric Oxide American Society of Anesthesiologists, San Diego, CA
1997	Lecturer	Renal Dose Dopamine in the ICU – Does It Work? Society of Critical Care Medicine, Controversies in Critical Care Boston, MA
1997	Lecturer	Sedation and Paralysis in the ICU: When is Enough Enough? American College of Chest Physicians Annual Meeting, New Orleans, LA
1997	Lecturer	Integration of Two Large CareVue Installations in a Newly Merged Organization Hewlett-Packard CareVue Users Group Meeting, Orlando, FL
1998	Visiting Professor	St. Luke's-Roosevelt Hospital, New York, NY
1998	Lecturer	Debunking Myths in the ICU Harvard Medical School Anesthesia Review and Update, Boston, MA
1998	Lecturer	Debunking Myths in the ICU. XIX World Congress on Diseases of the Chest

		Toronto, Canada
1998	Lecturer	Year in Review: Critical Care XIX World Congress on Diseases of the Chest, Toronto, Canada
1999	Moderator	Scientific Session, ASSCA, Dallas, TX
1999	Lecturer	Year in Review: Critical Care American College of Chest Physicians Annual Meeting, Chicago, IL
1999	Lecturer	The Use of Dopamine in the ICU ICU Frontiers Conference, Phoenix, AZ
2000	Lecturer	Year in Review: Critical Care Anesthesia Society of Critical Care Medicine Annual Meeting Orlando, FL
2000	Lecturer	Dopexamine, Dobutamine, and Dopamine Increase Splanchnic Perfusion: What is the Evidence? Clinical Conundrums in Critical Care, St. Thomas, USVI
2000	Lecturer	Critical Care 2000; The Year in Review, American Society of Critical Care Anesthesiologist Meeting, San Francisco, CA
2000	Lecturer	Are Cost Containment Activities Research? ASA 2000 Cost Containment Panel, ASA Annual Meeting, San Francisco, CA
2000	Moderator	What's New in Post-operative Care of the Cardiac Surgical Patient? Chest 2000, San Francisco, CA
2001	Lecturer	Year in Review – Anesthesia, Society of Critical Care Medicine Annual Meeting, San Francisco, CA
2001	Lecturer	Physiology of Hypotensive Renal Injury, Society of Critical Care Annual Meeting, San Francisco, CA
2001	Lecturer	Norepinephrine Improves Outcome in Septic Shock, Conundrums in Critical Care, Vail, CO

2001	Lecturer	Anesthesia Problems in the ICU, American College of Chest Physicians Annual Meeting, Philadelphia, PA
2001	Lecturer	Post-operative Care of the Cardiac Surgical Patient American College of Chest Physicians Annual Meeting, Philadelphia, PA
2002	Lecturer	Two New Drugs for the ICU Anesthesia Grand Rounds, Boston University Medical Center, Boston, MA
2002	Lecturer	High Altitude Illness Anesthesia Grand Rounds University of Massachusetts Medical Center, Worcester, MA
2003	Lecturer	Literature Review: 2002 Society of Critical Care Medicine Annual Meeting, San Antonio, TX
2003	Lecturer	Pulmonary Artery Catheters are Useful in the Peri-Operative Period MA Anesthesia Council on Education, Spring Meeting Boston, MA
2003	Lecturer	High Altitude Illness. Ryder Trauma Center, Jackson Memorial Hospital, Miami, Florida
2004		Television appearance, 48 Hours Investigates, CBS

E. Report of Clinical Activities

Member, Cardiac Surgical Team
Director and member, Surgical ICU Team
General operating room staff, BIDMC

PART III: BIBLIOGRAPHY

Original Articles:

1. Moss IR, **Lisbon A**, Levine JF, Wald A. The effects of increased intracranial pressure on respiratory function. Proc. 2nd Symposium on Intracranial Pressure. Berlin: Springer-Verlag; 1975:315-316.
2. Stein JM, **Lisbon A**. Pulmonary hemorrhage from pulmonary artery catheterization treated with endobronchial intubation. *Anesthesiology* 1981; 55:698-699.
3. duMoulin GC, Paterson DG, Hedley-Whyte J, **Lisbon A**. Aspiration of gastric bacteria in antacid treated patient: a frequent cause of post-operative colonization of the airway. *Lancet* 1982;1:242-245.
4. Zamani AA, Kido DK, Morris JH, **Lisbon A**, Wang AM. Permeability of the blood-brain barrier to different doses of diatrizoate meglumine-60. *Am J Neuroradiology* 1982; 3:631-634.
5. Skillman JJ, **Lisbon A**, Long PC, Silen W. (R)-15-methyl prostaglandin E2 does not prevent gastrointestinal bleeding in seriously ill patients. *Am J Surg* 1984;147:451-455.
6. Maslow A, **Lisbon A**. Anesthetic considerations in patients with mitochondrial dysfunction. *Anesth Analg* 1993; 76:884-886.
7. Cameron E, **Lisbon A**, Moorman R, Young JD. Prolonged neuromuscular blockade with pipecuronium in a patient with renal deficiency. *European J Anaesth* 1994; 11:237-239.
8. Nayyar P, **Lisbon A**. Non-operating room emergency airway management and endotracheal intubation practices: A survey of anesthesiology program directors. *Anesth Analg* 1997; 85:62-68.
9. Adelson-Mitty J, Fink MP, **Lisbon A**. The value of lumbar puncture in the evaluation of critically ill, non-immunosuppressed, surgical patients: a retrospective analysis of 70 cases. *Intensive Care Med* 1997; 23:749-752.
10. Cohn WE, Selke FW, Sirois C, **Lisbon A**, Johnson RG. Surgical intensive care unit recidivism after cardiac operations. *Chest* 1999; 116:688-692.
11. Marik PE, Varon J, **Lisbon A**, Reich HS. Physicians' own preferences to the limitation and withdrawal of life sustaining therapy. *Resuscitation* 1999;42:197-201.
12. Heard SO, **Lisbon A**, Toth I, Ramasubramanian R. An evaluation of a new continuous blood pressure monitoring system in critically ill patients. *J Clin Anesth* 2000; 12:509-518.

Reviews, Chapters, and Editorials:

1. **Lisbon A**, Geiger K, Hall SV, Malhotra IV. Respiratory Distress. In: May HL, editor. Emergency Medicine. New York: John Wiley; 1983. p. 61-94.
2. Comunale ME, **Lisbon A**. Post-operative care of the cardiac surgical patient. In: DiNardo J, Schwartz MJ, editors. A Manual of Cardiac Anesthesia. East Norwalk: Appleton-Century-Crofts;1990. p.313-326.
3. **Lisbon A**. The role of the ICU. In: Eichhorn JH, editor. Improving Anesthesia Outcome. Problems in Anesthesia. Philadelphia: Lippincott; 1991. Vol.5, No.2, p. 258-264.
4. **Lisbon A**, Vander Salm TJ, Visner MS. Management of the postoperative cardiac surgical patient. In: Rippe J, Irwin R, Fink M, Cerra F, editors. Intensive Care Medicine, 3rd ed. Boston: Little, Brown and Company; 1995. p. 1764-1781.
5. Matthews J, **Lisbon A**. Lactate metabolism in the critically ill patient. Current Opinion in Critical Care 1995;1:267-271.
6. **Lisbon A**. [Review of] Principles and Practice of Anesthesiology, 2nd Ed., Longnecker EI, Tinker JH, Morgan CE, Jr., editors. St. Louis: Mosby; 1997. Anesth Analg 1998; 86:1340.
7. **Lisbon A**, Fink MP. Adrenal function and ruptured abdominal aortic aneurysm: Keeping the hormones in check. Intensive Care Medicine 1998; 24:100-101.
8. **Lisbon A**. [Review of] Anesthesia and Transplantation. Sharpe MD, Gelb AW, editors. Boston: Butterworth-Heinemann;1999. Journal of Intensive Care Medicine 1999;14:293.
9. Szeluga DJ, **Lisbon A**. Transport of the Critically Ill. Anesthesiology Resident's Guide to Learning in the Intensive Care Unit. American Society of Critical Care Anesthesiologists; 1999.
10. Corwin H.L., **Lisbon A**. Renal Dose Dopamine: Long on Conjecture, Short on Fact. Critical Care Med 2000; 28:1657-1658.
11. **Lisbon A**, Vander Salm TJ, Visner MX. Management of the Postoperative Cardiac Surgical Patient. In : Irwin RS, Cerra FB, Rippe JM, editors. Irwin and Rippe's Intensive Care Medicine. Philadelphia: Lippincott-Raven; 1999. p.1828-1844.
12. Fink MD, **Lisbon A**. Cardiovascular Failure. In : Feliciano DV, Moore EE, Mattox KL, editors. Trauma. 4th ed. Stamford: McGraw-Hill Co.; 2000. p.1287-1305.
13. **Lisbon A**, Fink MP. Post- Cardiac Surgery Management. In: Kruse JA, Fink MP, Carlson RW, editors. Saunders Manual of Critical Care. Philadelphia: Saunders; 2003. p. 500-503.
14. **Lisbon A**. Post-Peripheral Vascular Bypass Management. In: Kruse JA, Fink MP, Carlson RW, editors. Saunders Manual of Critical Care. Philadelphia: Saunders; 2003. p. 504-506.

15. **Lisbon A.** Dopexamine, dobutamine, dopamine increase splanchnic blood flow: What is the evidence? Chest 2003;123: 460S-463S.
16. Azocar R, **Lisbon A.** Captaining the ship during a storm: Who should care for the critically ill? Chest 2001; 120: 694-696.
17. **Lisbon A.** [Review of] Critical Care Medicine – Perioperative Management. 2nd ed. Murray MJ, Coursin DB, Pearl RG, Prough DS, editors. Philadelphia: Lippincott, Williams and Wilkins; 2002. Journal of Intensive Care Medicine 2003; 18: 110 -111.
18. **Lisbon A.** Cardiovascular Failure. In: Moore EE, Mattox KL, Feliciano DV, editors. Trauma Manual. 4th ed. New York: McGraw-Hill; 2003. p. 460-465.
19. Puyo CA, **Lisbon A.** Management of the Postoperative Cardiac Surgical Patient. In: Irwin RS, Rippe JM, editors. Irwin and Rippe's Intensive Care Medicine. Philadelphia: Lippincott ,Williams and Wilkins; 2003. p.1637-1651.
20. Talmor, DS, **Lisbon A.**, Management of the Postoperative Cardiac Surgical Patient. In: Textbook of Critical Care, Fink, Abraham Vincent, Kochanek, editors. J-L. Elsevier (in press)

Books, Monographs and Textbooks:

1. **Lisbon A**, editor. Anesthetic Considerations in Setting up a New Medical Facility. Boston: Little, Brown; 1981.
2. Barnes TA, editor, **Lisbon A**, consulting editor. Respiratory Care Practice. Chicago: Year Book Medical; 1988.

Clinical Communications:

1. Ross MJ, Sakoulas G, Manning WJ, Cohn WE, **Lisbon A.** *Corynebacterium jeikeium* native valve endocarditis following femoral access for coronary angiography. Clin Infec Dis 2001; 32(7): E120-121.
2. Azocar RJ, Talmor D, Kaynar AM, **Lisbon A.** Persistent hypoxemia after diagnosis and treatment of pulmonary thromboembolism. J Clin Anesth 2001; 13: 588-91.
3. Azocar RJ, **Lisbon A.** Extra vigilance required. BMJ 2002; 325:1505.
4. Azocar RJ, Narang P, Talmor D, **Lisbon A**, Kaynar AM. Persistent left superior vena cava identified after cannulation of right subclavian vein. Anesth Analg 2002;95:305-307.

Abstracts:

1. Kido DK, **Lisbon A**, Saubermann, AJ, and Sandor T. The effect of acute hypertension on the blood-brain barrier: An evaluation utilizing computed tomography and x-ray microanalysis. *Invest Radiol* 1980;15:396.
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